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APPLICATION NO.	F	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/993.355		11/14/2001	Jackie Y. Ying	M00925/70109 TJO	M00925/70109 TJO 5789	
23628	7590	07/16/2002				
		LD & SACKS, PC	EXAMINER			
FEDERAL RESERVE PLAZA 600 ATLANTIC AVENUE				METZMAIER, DANIEL S		
BOSTON, N	MA 0221	0-2211		ART UNIT PAPER NUMBER		
				1712	h	
				DATE MAILED: 07/16/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

			11)
	Application No.	Applicant(s)	
	09/993,355	YING ET AL.	
Office Action Summary	Examiner	Art Unit	
	Daniel S. Metzmaier	1712	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with th	e correspondence addre	ss
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a reply be y within the statutory minimum of thirty (30) will apply and will expire SIX (6) MONTHS fi , cause the application to become ABANDC	e timely filed days will be considered timely. rom the mailing date of this comm NED (35 U.S.C. § 133).	unication.
1) Responsive to communication(s) filed on 14 f	November 2001 .		
2a) This action is FINAL . 2b) Th	is action is non-final.		
3) Since this application is in condition for allowa closed in accordance with the practice under			nerits is
Disposition of Claims			
4)⊠ Claim(s) <u>1-22,26,33,35,39-53 and 56-58</u> is/are			
4a) Of the above claim(s) is/are withdraw	wn from consideration.		
5) Claim(s) is/are allowed.			
6) Claim(s) is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) <u>1-22,26,33,35,39-53 and 56-58</u> are su	ubject to restriction and/or elec	tion requirement.	
Application Papers			
9) ☐ The specification is objected to by the Examine10) ☐ The drawing(s) filed on is/are: a) ☐ acception		vaminar	
Applicant may not request that any objection to the			
11) The proposed drawing correction filed on	_ is: a)		
If approved, corrected drawings are required in rep		provod by the Examinor.	
12) The oath or declaration is objected to by the Ex	·		
Priority under 35 U.S.C. §§ 119 and 120			
13) Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C. & 119	9(a)-(d) or (f)	
a) ☐ All b) ☐ Some * c) ☐ None of:	priority under do o.o.o. 3 1 7	o(u) (u) o. (/).	
1. Certified copies of the priority document	s have been received		
2. Certified copies of the priority document		eation No	
3. Copies of the certified copies of the prior application from the International Bu * See the attached detailed Office action for a list	rity documents have been rece reau (PCT Rule 17.2(a)).	eived in this National Sta	ıge
14) Acknowledgment is made of a claim for domesti	·		nlication)
a) The translation of the foreign language pro	•		phoduotiy.
15) ☐ Acknowledgment is made of a claim for domest	• •		
Attachment(s)	. 	(DTO 440 D	
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 	5) Notice of Inform	nary (PTO-413) Paper No(s) nal Patent Application (PTO-15	
S. Patent and Trademark Office			

Application/Control Number: 09/993,355 Page 2

Art Unit: 1712

DETAILED ACTION

Claims 1-22, 26, 33, 35, 39-53 and 56-58 are pending. Claims 23-25, 27-32, 34, 36-38, 54-55 and 59-71 have been canceled by the amendment filed November 14, 2001, Paper No. 4.

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - Claims 1-19, drawn to a composition comprising particulate material, classified in class 252, subclass 1.
 - II. Claim 20, drawn to a combustion catalyst, classified in class 502, subclass1+.
 - III. Claims 21-22, 26, 33, 35 and 39-41, drawn to methods of making materials employing reverse micelles, classified in class 516, subclass 22.
 - IV. Claims 42-45, drawn to a method of coating a particle, classified in class427, subclass 220.
 - V. Claims 46-52, drawn to a method of oxidizing a hydrocarbon, classified in class 208, subclass 3.

The inventions are distinct, each from the other because of the following reasons:

2. Inventions of Group III and Group I or II are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the compositions

Application/Control Number: 09/993,355

Application/Control Number: 09/993

Art Unit: 1712

can be made by methods other than by reverse micelle formation such as grinding larger particles, mixed solvent alkoxide hydrolysis/condensation, of surface deposition in the case of Group II.

Page 3

Also, the process may be employed in making materials that do not retain an average surface area of at least 100 m2/g when heated to 700° C, such as making metal particles or organic polymer particles that when heated either melt or oxidize (burn) to gas.

- 3. Inventions Group I and Group V are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the product as claimed may be used in a materially different process such as the making of ceramics for non-catalytic uses, or as fillers in paints and/or polymers.
- 4. Inventions of Group I, II, III or V and Group IV are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions have different modes of operations wherein Group IV is merely a physical coating step and the remaining Groups are directed to compositions that do not require said coating and my be made by other methods, methods requiring a reaction and/or oxidation.

Application/Control Number: 09/993,355 Page 4

Art Unit: 1712

5. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

- 6. Because these inventions are distinct for the reasons given above and the search required for Groups III and IV is not required for Group I restriction for examination purposes as indicated is proper.
- 7. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

Election of Species

8. Claims 1-22, 26, 33, 35, 39-53 and 56-58 are generic to a plurality of disclosed patentably distinct species comprising ceramic materials of various all known metal oxides, semimetal oxides, metalloid oxides, doped oxide, monoliths thereof, generic materials having the claimed functional properties, or combinations thereof. Applicant is required under 35 U.S.C. 121 to elect a single disclosed species, even though this requirement is traversed.

Applicants claims include in the alternative, oxides of the following: Group IA, IIA, and IIIA metals, transition metals, metalloids, semimetals, lanthanides, actinides and combinations thereof. The claims further include monoliths having the preceding species immobilized thereon as a separate species. Applicants are required to elect a single disclosed species for examination purposes. Applicants may direct attention to an example since no single specie is claimed.

Page 5

Application/Control Number: 09/993,355

Art Unit: 1712

4

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

9. A telephone call was made to Timothy J. Oyer on July 15, 2002 to request an oral election to the above restriction requirement, but did not result in an election being made.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

10. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel S. Metzmaier whose telephone number is (703) 308-0451. The examiner can normally be reached on 9:00 AM to 5:30 PM.

Page 6

Application/Control Number: 09/993,355

Art Unit: 1712

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Dawson can be reached on (703) 308-2340. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9310 for regular communications and (703) 872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

Daniel S. Metzmaier
Primary Examiner

Art Unit 1712

DSM July 15, 2002